Approved For Release 2002/06/17 : CIA-RDP78B04747A000700020018-4 SECRET

NPIC/P&DS-6-097 29 September 1966

	• .	MEMORANDUM FOR:	Director, National Photographic Interpretation Center				
		ATTENTION :	Chief, Logistics Branch				
		THROUGH :	Chief, Support Staff				
25X1		SUBJECT :	Request for Approval of Change in Scope on GEMS Development Project with amounting to	25X1			
		REFERENCE :	Chief, Administrative Staff, O/DDI Memorandum of 4 February 1964: Approval of Research and Development Activities.				
25X1 25X1 25X1		1. In 1965, NPIC contracted with for Graded Estimate Measuring Samples (GEMS) Development for The objective of the project is to determine how well the image quality of mission photography can be assessed by comparing it with GEMS. One large, integral part of the work is to print in the laboratory 1024 GEMS to be used as the basic GEMS matrix to selectively compare against mission photography on a GEMS comparator. Production of this large GEMS matrix has not been initiated but is scheduled to begin very soon; the matrix above will cost about A GEMS comparator designed to use this many GEMS has been estimated to cost whenever it would be developed. 2. has suggested a technique which, if feasible, would eliminate the need for such a large GEMS matrix, not only in the proto- type system to be developed under this contract, but in subsequent operational systems. The proposed technique would require only a few GEMS (perhaps as few as 6-10). This technique suggests that the operator himself could make "optical" GEMS in real-time for comparison against his mission material rather than him having to make a selection from the 1024 GEM matrix as designed in the system now under development.					
25X1		3. This all but it has not be fore,	ternate GEMS technique appears to be technically sound, been investigated experimentally in the laboratory. There- has proposed a ten-week laboratory feasibility study	1 8			

Declass Review by NIMA/DOD

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